

MINOS+ Status Report



Donatella Torretta All Experimenters' Meetings March 3, 2014



Near Detector



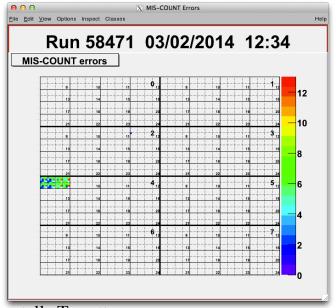


DAQ

DAQ running great. No problems to report.

Electronics

- Master 4-9 shows MIS-COUNT errors in each and every Minders/Menus
 - We'll replace it at the next beam downtime





Far Detector





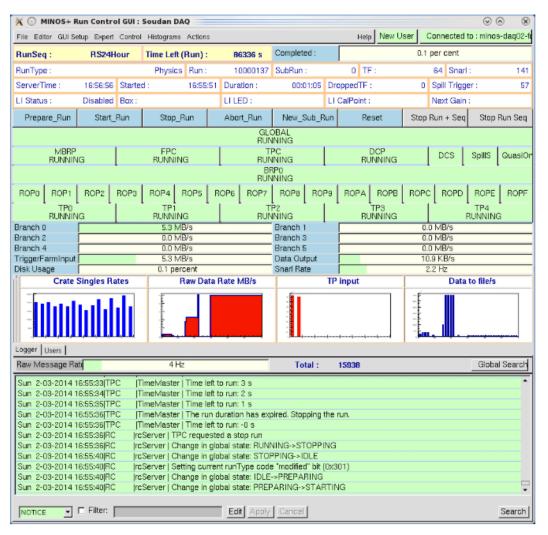
DAQ

- FD old-DAQ (PCI bus based) crashed on Sunday February 23rd
- Multiple failures on multiple components
- Many hours of work by the Mine Crew and DAQ people
- However, we have not been able to recover it.

** BUT **



Far Detector new DAQ is running!

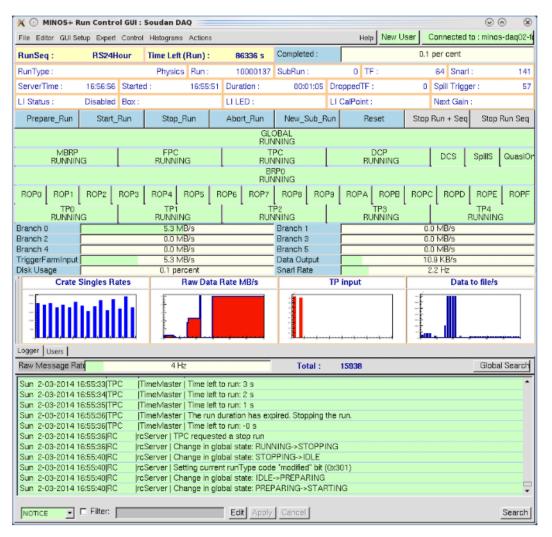


- Ethernet based DAQ
- ** Amazing tour de force by
 Bill Badgett here, Jerry Meier
 and Jeff Gunderson at Soudan
 **
- On Friday morning, Bill got the VMEtro bus analyzer running in Crate 9
- Steady and fast progress in understanding the MVME/ VARCs interactions since
- Added crates few at the time.
 Then all.
- IMPORTANT: data is transferred from EACH of the MVME 5500 to one Daq computer via GigaBit Ethernet cables
- NO dedicated PCI cards involved
- Fewer points of failures: more reliable system
- Easier to partition in subparts: easier to debug



Far Detector new DAQ is running!



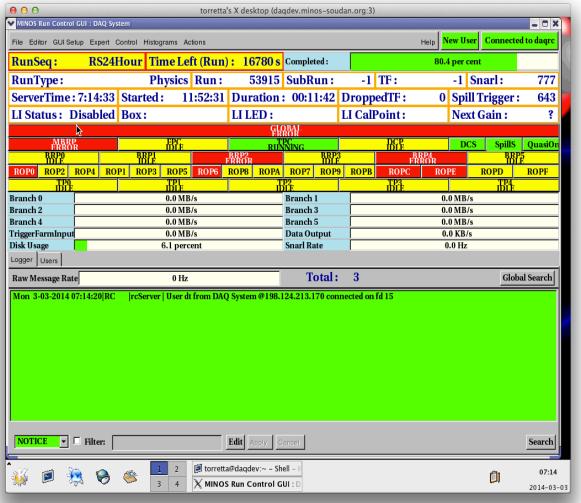


- Did NOT touch the Timing System (daqtpc)
- All Daq servers are newer and better
- Installed with SLF6
- Latest Root version
- MVME CPUs are using VxWorks 6.9
- Collaboration agreed to do a fast track reconstruction of the beam data
- Data Quality and Calibrations groups will check data as well



Far Detector old-DAQ problems





- PVIC (PCI Vertical InterConnect bus) based system
- Many points of failure (many PCI cards installed in crates and computers)
- Optical and differential cables throughout
- Difficult to trouble shoot
- Problems moved around on the bus
- Replaced many many components to no avail



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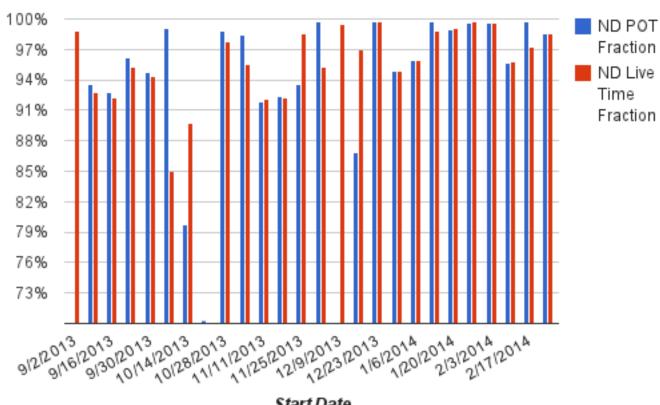


	1	Near Detector		Far Detector	
Start Date/Time	End Date/Time	POT Fraction	Live Time Fraction	POT Fraction	Live Time Fraction
12/30/13 00:00:00	01/06/14 00:00:00	94.9%	94.9%	98.5%	98.5%
01/06/14 00:00:00	01/13/14 00:00:00	95.9%	95.9%	98.7%	98.8%
01/13/14 00:00:00	01/20/14 00:00:00	99.7%	98.8%	99.8%	99.3%
01/20/14 00:00:00	01/27/14 00:00:00	99.0%	99.1%	95.2%	94.8%
1/27/14 12:00 AM	2/3/14 12:00 AM	99.7%	99.7%	95.8%	96.6%
2/3/14 12:00 AM	2/10/14 12:00 AM	99.5%	99.6%	94.9%	95.2%
2/10/14 12:00 AM	2/17/14 12:00 AM	95.7%	95.7%	99.9%	99.0%
2/17/14 12:00 AM	2/24/14 12:00 AM	99.7%	97.2%	78.0%	87.0%
2/24/14 12:00 AM	3/3/2014 12:00 AM	98.5%	98.5%	0%	0%





ND POT fraction and Live Time Fraction

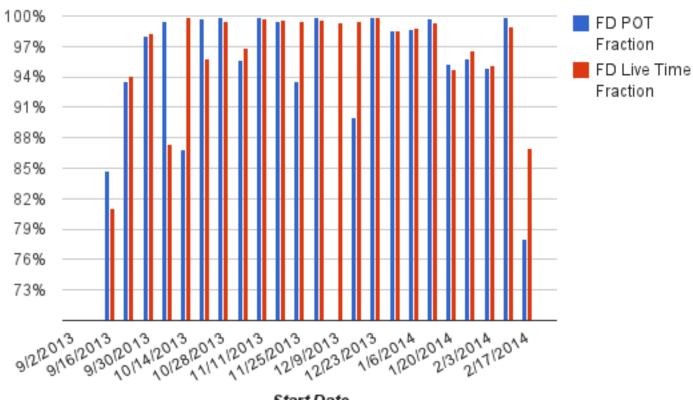


Start Date





FD POT Fraction and Live Time Fraction



Start Date